



16
RECEIVED

APR 23 2001

PATENT

TECH CENTER 1600/2900

SE: 16
#14/C

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Gruber, et al.

Examiner: Bui, P.

Serial No.: 09/284,697

Group Art Unit: 1638

Filed: July 6, 1999

Docket: 1149-2

For: PANCREATIC LIPASES
AND/OR RECOMBINANT
COLIPASES AND DERIVED
POLYPEPTIDES PRODUCED
BY PLANTS, METHODS FOR
OBTAINING THEM AND USE
THEREOF

Dated: April 12, 2001

I hereby certify this correspondence is being deposited with the United States Postal Service as first class mail, postpaid in an envelope, addressed to:
Assistant Commissioner for Patents, Washington, D.C.

20231 on April 12, 2001
Dated: 4/12/01 J. C. L.

Assistant Commissioner for Patents
Washington, DC 20231

REQUEST FOR ENTRY OF THE REVISED SEQUENCE LISTING

Sir:

This Request is **not** a response to the Office Action that was issued along with the Raw Sequence Listing Error Report. A response to the Office Action will follow.

Along with this Request, Applicants submit the following:

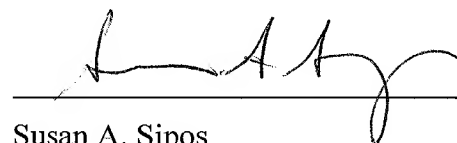
1. An substitute Diskette containing the revised Sequence Listing in computer-readable form;
2. An substitute paper copy of the revised Sequence Listing;
3. A copy of the Raw Sequence Listing Error Report; and
4. Response to Raw Sequence Listing Error Report.

Entry of the revised Sequence Listing into the specification of the application is respectfully requested.

The revised Sequence Listing contains no new matter. Only the formatting changes specified in the Error Report were made to the original Sequence Listing. The contents of the substitute computer readable form and the substitute paper copy are the same.

If the Examiner has any questions relating to this application, it is respectfully requested that the Examiner contact the Applicants' undersigned attorney at the telephone number provided below.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'Susan A. Sipos', is written over a horizontal line.

Susan A. Sipos
Registration No. 43,128
Attorney for Applicants

HOFMANN & BARON, LLP
6900 Jericho Turnpike
Syosset, New York 11791
(516) 822-3550
SAS/dlv/jjc

131641_1

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Gruber, et al.

Examiner: Bui, P.

Serial No.: 09/284,697

Group Art Unit: 1638

Filed: July 6, 1999

Docket: 1149-2

For: PANCREATIC LIPASES
AND/OR RECOMBINANT
COLIPASES AND DERIVED
POLYPEPTIDES PRODUCED
BY PLANTS, METHODS FOR
OBTAINING THEM AND USE
THEREOF

Dated: April 12, 2001

I hereby certify this correspondence is being deposited with the United States Postal Service as first class mail, postpaid in an envelope, addressed to: Assistant Commissioner for Patents, Washington, D.C.

20231 on April 12, 2001

Dated: 4/12/01 P. C. Bui

Assistant Commissioner for Patents
Washington, DC 20231

RESPONSE TO RAW SEQUENCE LISTING ERROR REPORT

Sir:

This Response is **not** a response to Office Action that was issued along with the Raw Sequence Listing Error Report. A response to the Office Action will follow. The present Response only addresses the Raw Sequence Listing Error Report mailed March 22, 2001.

Applicants enclose herewith the following:

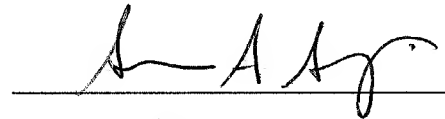
1. An substitute Diskette containing the revised Sequence Listing in computer-readable form;
2. An substitute paper copy of the revised Sequence Listing;
3. A copy of the Raw Sequence Listing Error Report; and
4. Request for Entry of the Revised Sequence Listing.

Applicants submit that the substitute Sequence Listing complies with the requirements set forth in the Raw Sequence Listing Error Report.

Additionally, under 37 C.F.R. 1.821(f), the Applicants' attorney hereby states that the contents of the substitute computer readable form and the substitute paper copy are the same. Under 37 C.F.R. §1.821(g), the Applicants' attorney also states that this Sequence Listing does not include any new matter.

If the Examiner has any questions relating to this application, it is respectfully requested that the Examiner contact the Applicants' undersigned attorney at the telephone number provided below.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'S. A. Sipos', is written over a horizontal line.

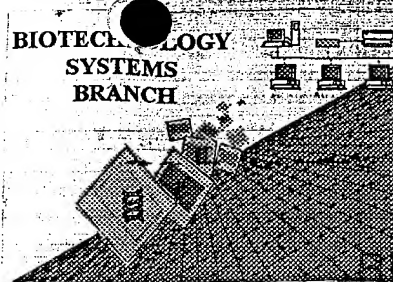
Susan A. Sipos
Registration No. 43,128
Attorney for Applicants

HOFMANN & BARON, LLP
6900 Jericho Turnpike
Syosset, New York 11791
(516) 822-3550
SAS/dlv

2/Ben

RAW SEQUENCE LISTING ERROR REPORT

BIOTECHNOLOGY
SYSTEMS
BRANCH



#10

RECEIVED

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

DEC 14 2000

TECH CENTER 1600/2900

Application Serial Number: 09/284,697

Source: 1638

Date Processed by STIC: 12/1/2000

Lib 6573

mw Spencer 703-308-4266

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin30help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 - 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

Raw Sequence Listing Error Summary

ERROR DETECTED SUGGESTED CORRECTION

SERIAL NUMBER:

09/284,697

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics The number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".
- 2 Wrapped Aminos The amino acid-number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".
- 3 Incorrect Line Length The rules require that a line not exceed 72 characters in length. This includes spaces.
- 4 Misaligned Amino Acid The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs
Numbering between the numbering. It is recommended to delete any tabs and use spacing between the numbers.
- 5 J Non-ASCII This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.
- 6 Variable Length Sequence(s) contain n's or Xaa's which represented more than one residue.
As per the rules, each n or Xaa can only represent a single residue.
Please present the maximum number of each residue having variable length and
indicate in the (ix) feature section that some may be missing.
- 7 PatentIn ver. 2.0 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid
sequence(s) . Normally, PatentIn would automatically generate this section from the
previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section
to the subsequent amino acid sequence. This applies primarily to the mandatory <220>-<223>
sections for Artificial or Unknown sequences.
- 8 Skipped Sequences Sequence(s) missing. If intentional, please use the following format for each skipped sequence:
(OLD RULES) (2) INFORMATION FOR SEQ ID NO:X:
(i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:
This sequence is intentionally skipped

Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).
- 9 Skipped Sequences Sequence(s) missing. If intentional, please use the following format for each skipped sequence.
(NEW RULES) <210> sequence id number
 <400> sequence id number
 000
- 10 Use of n's or Xaa's Use of n's and/or Xaa's have been detected in the Sequence Listing.
(NEW RULES) Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 11 Use of <213>Organism Sequence(s) are missing this mandatory field or its response.
(NEW RULES)
- 12 Use of <220>Feature Sequence(s) are missing the <220>Feature and associated headings.
(NEW RULES) Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown"
 Please explain source of genetic material in <220> to <223> section.
 (See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)
- 13 PatentIn ver. 2.0 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted
 file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).
 Instead, please use "File Manager" or any other means to copy file to floppy disk.

P:BU1

#106
12/19/00
1638

IMPORTANT: see item 5 on
Erra summary sheet
Does Not Comply
Corrected Diskette Needed

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/284,697

DATE: 12/01/2000
TIME: 08:23:23

Input Set : A:\ES.txt
Output Set : N:\CRF3\12012000\I284697.raw

pp 1-5

OK

```
3 <110> APPLICANT: MERISTEM THERAPEUTICS S.A.
5 <120> TITLE OF INVENTION: Pancreatic Lipases and/or Recombinant Colipases and
6   Derived Polypeptides Produced by Plants, Methods for
7   Obtaining Them and Use thereof.
9 <130> FILE REFERENCE: 1074-1168PCF-US octobre 2000
11 <140> CURRENT APPLICATION NUMBER: US 09/284,697
12 <141> CURRENT FILING DATE: 1999-07-06
14 <150> PRIOR APPLICATION NUMBER: PCI/FR97/01862
15 <151> PRIOR FILING DATE: 1997-10-17
17 <160> NUMBER OF SEQ ID NOS: 16
19 <170> SOFTWARE: Patentin Ver. 2.1
21 <210> SEQ ID NO: 1
22 <211> LENGTH: 69
23 <212> TYPE: DNA
24 <213> ORGANISM: Artificial Sequence
26 <220> FEATURE:
27 <223> OTHER INFORMATION: Description of Artificial Sequence: Signal peptide
29 <220> FEATURE:
30 <221> NAME/KEY: misc_feature
31 <222> LOCATION: (1)..(69)
32 <223> OTHER INFORMATION: Signal peptide of Sporamine A of Sweet potato
34 <220> FEATURE:
35 <221> NAME/KEY: CDS
36 <222> LOCATION: (1)..(69)
38 <300> PUBLICATION INFORMATION:
39 <303> JOURNAL: J. Biol. Chem.
40 <304> VOLUME: 264
41 <306> PAGES: 20042-20048
42 <307> DATE: 1989
44 <400> SEQUENCE: 1
45 atg aag gcc ttc aca ctc gct ctc ttc tta gct ctc tcc ctc tat ctc 48
46 Met Lys Ala Phe Thr Leu Ala Leu Phe Leu Ala Leu Ser Leu Tyr Leu
47 1 5 10 15
49 ctg ccc aat cca gcc cat tcc 69
50 Leu Pro Asn Pro Ala His Ser
51 20
54 <210> SEQ ID NO: 2
55 <211> LENGTH: 24
56 <212> TYPE: PRT
57 <213> ORGANISM: Artificial Sequence
58 <220> FEATURE:
59 <223> OTHER INFORMATION: Description of Artificial Sequence: Signal peptide
60 <400> SEQUENCE: 2
61 Met Lys Ala Phe Thr Leu Ala Leu Phe Leu Ala Leu Ser Leu Tyr Leu
62 1 5 10 15
64 Leu Pro Asn Pro Ala His Ser
65 20
```

Sequence 1 is a nucleotide sequence.

nucleotide sequence

This would be a sufficient
Explanation for (213) Artificial
Sequence.

OK

W-->

← insert this mandatory numeric identifier wherever
↓
give source
of genetic material

C2217, C2227, or
C2237 is
stour

see circled portion of item 12
on Erra summary sheet

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/284,697
 DATE: 12/01/2000
 TIME: 09:23:23

Input Set : A:\ES.txt
 Output Set: N:\CRF3\12012000\I284697.raw

69 <210> SEQ ID NO: 3
 70 <211> LENGTH: 111
 71 <212> TYPE: DNA
 72 <213> ORGANISM: Artificial Sequence
 74 <220> FEATURE:
 75 <223> OTHER INFORMATION: Description of Artificial Sequence: Signal peptide
 77 <220> FEATURE:
 78 <221> NAME/KEY: sig_peptide
 79 <222> LOCATION: (1)..(111)
 80 <223> OTHER INFORMATION: Signal peptide PPS of Sporamine A of Sect. potato.
 82 <220> FEATURE:
 83 <221> NAME/KEY: CDS
 84 <222> LOCATION: (1)..(111)
 86 <300> PUBLICATION INFORMATION:
 87 <303> JOURNAL: J. Biol. Chem.
 88 <304> VOLUME: 264
 89 <306> PAGES: 20042-20048
 90 <307> DATE: 1989
 92 <400> SEQUENCE: 3
 93 atg aaa gcc ttc aca ctc gct ctc ttc tta gct ctt tcc ctc tat ctc 48
 94 Met Lys Ala Phe Thr Leu Ala Leu Phe Leu Ala Leu Ser Leu Tyr Leu
 95 1 5 10 15
 97 ctg ccc aat cca gcc cat tcc agg ttc aat ccc atc cgc ctc ccc acc 96
 98 Leu Pro Asn Pro Ala His Ser Arg Phe Asn Pro Ile Arg Leu Pro Thr
 99 20 25 30
 101 aca cac gaa ccc gcc 111
 102 Thr His Glu Pro Ala
 103 35

seq 3 is a nucleotide sequence

Signal peptide

Sweet

OK

106 <210> SEQ ID NO: 4
 107 <211> LENGTH: 37
 108 <212> TYPE: PRO
 109 <213> ORGANISM: Artificial Sequence
 110 <220> FEATURE:
 111 <223> OTHER INFORMATION: Description of Artificial Sequence: Signal peptide
 112 <400> SEQUENCE: 4
 113 Met Lys Ala Phe Thr Leu Ala Leu Phe Leu Ala Leu Ser Leu Tyr Leu
 114 1 5 10 15
 116 Leu Pro Asn Pro Ala His Ser Arg Phe Asn Pro Ile Arg Leu Pro Thr
 117 20 25 30
 119 Thr His Glu Pro Ala
 120 35

insert

give source

124 <210> SEQ ID NO: 5
 125 <211> LENGTH: 66
 126 <212> TYPE: DNA
 127 <213> ORGANISM: Artificial Sequence
 129 <220> FEATURE:
 130 <223> OTHER INFORMATION: Description of Artificial Sequence: Signal peptide
 132 <220> FEATURE:
 133 <221> NAME/KEY: sig_peptide

Sequence 5 is a nucleotide sequence

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/284,697

DATE: 12/01/2000
 TIME: 09:23:23

Input Set : A:\ES.txt
 Output Set: N:\CRF3\12012000\1284697.raw

134 <222> LOCATION: (1)..(66)
 135 <223> OTHER INFORMATION: Signal peptide of rabbit gastric lipase
 137 <220> FEATURE:
 138 <221> NAME/KEY: CDS
 139 <222> LOCATION: (1)..(66)
 141 <400> SEQUENCE: 5
 142 atg tgg glg ctt ttc atg gtg gca gct tlg cta tct gca ctt gga act 48
 143 Met Trp Val Leu Phe Met Val Ala Ala Leu Leu Ser Ala Leu Gly Thr
 144 1 5 10 15 66
 146 aca cat ggt ctt ttt gga
 147 Thr His Gly Leu Phe Gly
 148 20

151 <210> SEQ ID NO: 6
 152 <211> LENGTH: 22
 153 <212> TYPE: PRI
 154 <213> ORGANISM: Artificial Sequence

W--> 155 <220> FEATURE: *insert*

155 <223> OTHER INFORMATION: Description of Artificial Sequence Signal peptide
 157 <400> SEQUENCE: 6
 158 Met Trp Val Leu Phe Met Val Ala Ala Leu Leu Ser Ala Leu Gly Thr
 159 1 5 10 15

161 Thr His Gly Leu Phe Gly
 162 20

166 <210> SEQ ID NO: 7
 167 <211> LENGTH: 48
 168 <212> TYPE: DNA
 169 <213> ORGANISM: Artificial Sequence

171 <220> FEATURE:
 172 <223> OTHER INFORMATION: Description of Artificial Sequence Signal peptide

174 <220> FEATURE:
 175 <221> NAME/KEY: sig_peptide
 176 <222> LOCATION: (1)..(48)
 177 <223> OTHER INFORMATION: Signal peptide of PSHPL.
 179 <220> FEATURE:

180 <221> NAME/KEY: CDS
 181 <222> LOCATION: (1)..(48)
 182 <223> OTHER INFORMATION: The cleavage sequence between the two sequences
 183 coding for PSHPL and HPL is Gly-Lys.

185 <400> SEQUENCE: 7
 186 atg ctg cca ctt tgg act ctt tca ctg ctg ctg tga gca gta gca gga 48
 187 Met Leu Pro Leu Trp Thr Leu Ser Leu Leu Leu Gly Ala Val Ala Gly
 188 1 5 10 15

191 <210> SEQ ID NO: 8
 192 <211> LENGTH: 16
 193 <212> TYPE: PRI
 194 <213> ORGANISM: Artificial Sequence

W--> 195 <220> FEATURE: *insert*

195 <223> OTHER INFORMATION: Description of Artificial Sequence Signal peptide
 197 <400> SEQUENCE: 8

give source

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/284,697
 DATE: 12/01/2000
 TIME: 09:23:23

Input Set : A:\ES.txt
 Output Set: N:\CRF3\12012000\I284697.raw

198 Met Leu Pro Leu Trp Thr Leu Ser Leu Leu Leu Gly Ala Val Ala Gly
 199 1 5 10 15
 203 <210> SEQ ID NO: 9
 204 <211> LENGTH: 66
 205 <212> TYPE: DNA
 206 <213> ORGANISM: Artificial Sequence
 208 <220> FEATURE:
 209 <223> OTHER INFORMATION: Description of Artificial Sequence: Signal peptide
 211 <220> FEATURE:
 212 <221> NAME/KEY: sig_peptide
 213 <222> LOCATION: (1)..(66)
 214 <223> OTHER INFORMATION: Signal peptide of HPCOL
 216 <220> FEATURE:
 217 <221> NAME/KEY: CDS
 218 <222> LOCATION: (1)..(66)
 220 <400> SEQUENCE: 9
 221 atg tgg atg ctt ttc atg atg gca gct ttg cta tct gca ctt gga act 48
 222 Met Trp Val Leu Phe Met Val Ala Ala Leu Leu Ser Ala Leu Gly Thr
 223 1 5 10 15
 225 aca cat ggt ctt ttt gga 66
 226 Thr His Gly Leu Phe Gly
 227 20
 230 <210> SEQ ID NO: 10
 231 <211> LENGTH: 22
 232 <212> TYPE: PRT
 233 <213> ORGANISM: Artificial Sequence
 W--> 234 <220> FEATURE:
 234 <223> OTHER INFORMATION: Description of Artificial Sequence: Signal peptide
 236 <400> SEQUENCE: 10
 237 Met Trp Val Leu Phe Met Val Ala Ala Leu Leu Ser Ala Leu Gly Thr
 238 1 5 10 15
 240 Thr His Gly Leu Phe Gly
 241 20
 245 <210> SEQ ID NO: 11
 246 <211> LENGTH: 51
 247 <212> TYPE: DNA
 248 <213> ORGANISM: Artificial Sequence
 250 <220> FEATURE:
 251 <223> OTHER INFORMATION: Description of Artificial Sequence: Signal peptide
 253 <220> FEATURE:
 254 <221> NAME/KEY: sig_peptide
 255 <222> LOCATION: (1)..(51)
 256 <223> OTHER INFORMATION: Signal peptide of PSHPOL
 258 <220> FEATURE:
 259 <221> NAME/KEY: CDS
 260 <222> LOCATION: (1)..(51)
 261 <223> OTHER INFORMATION: The cleavage sequence between the two sequences
 262 coding for PSHPOL and HPCOL is Ala-Lys.
 264 <400> SEQUENCE: 11

nucleotide sequence

insert

gene source

nucleotide sequence

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/284,697
DATE: 12/01/2000
TIME: 08:23:24

Input Set : A:\ES.txt
Output Set: N:\CRF3\12012000\I284697.raw

L:12 M:271 C: Current Filing Date differs. Replaced Current Filing Date
L:42 M:285 W: Invalid Journal Date: Wrong YYYY-MM-DD, MMM-YYYY or SEASON-YYYY. Wrong Journal Date: YYYY-MM-DD, MMM-YYYY or Season-YYYY
L:58 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:90 M:285 W: Invalid Journal Date: Wrong YYYY-MM-DD, MMM-YYYY or SEASON-YYYY. Wrong Journal Date: YYYY-MM-DD, MMM-YYYY or Season-YYYY
L:110 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:155 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:195 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:234 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:277 M:258 W: Mandatory Feature missing, <220> FEATURE: